

# ACL Production Protocol

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# Idea: keeping track of everything during ACL production

- Find an easy way to keep track of all parameters of relevance for each ACL produced from now on
- Proposal: A spreadsheet/database for each major step of the production (TPB coating, ACL Assembly, Scan) and link between them using the serial numbers
- Serial numbers:
  - TPB coating: DSG-\*\*
  - ACL Assembly: ACL-26-\*\*\*\* (since there are so many parameters adding another number for each setup would be too complicated)
  - Scan:

# Parameters for each step

## TPB coating

- **Identifiers** (coating ID, coating date)
- **Mirror Prep** (*glue type, glue reused, glue roll number, mirror roll number*)
- **Cleaning** (*Holder used, Soap type, Drying wipes*)
- **Evap Chamber** (TPB tray status, Distance, Heater ON time, Pressure, heater setpoint, cooler setpoint, heater off time, coating duration, coating uniformity)

## ACL Assembly

- **Identifiers** (ACL ID, Coating ID, Assembly date)
- **Lamination** (WLS serial number, Bubble count, *bubble severity*)
- **Scan** (Scan ID, Scan Outcome)
- **Final Outcome**

## Scan

- **Identifiers** (Scan ID, ACL ID, Coating ID, Scan date)
- **Type of scan**
- **Evaluation** (PDE, ..., Scan file path, Scan outcome)

## To be discussed

- Enough parameters? More parameters?
- Implement the spreadsheets as a SQL for long term use?
- Add the data for each scan to the metadata of the h5 files
- Parameters such as bubble severity can be defined out of experience